

=> d his

(FILE 'HOME' ENTERED AT 10:18:44 ON 04 FEB 2003)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
LIFESCI' ENTERED AT 10:19:41 ON 04 FEB 2003

L1 372494 S PROTEASE?
L2 735 S NOCARDIOPSIS
L3 59 S L1 AND L2
L4 10012 S FEED (A) ADDITIVE?
L5 1 S L3 AND L4
L6 6127 S ACID (A) STABLE
L7 406 S L1 AND L6
L8 7253 S VEGETABLE (A) PROTEIN?
L9 48795 S ANIMAL (A) FEED?
L10 55897 S L8 OR L9
L11 4 S L7 AND L10
L12 4 DUP REM L11 (0 DUPLICATES REMOVED)
E SJOEHOLM C/AU
L13 23 S E3-E4
L14 5 S OESTERGAARD P R/AU
E OESTERGAARD P R/AU
L15 34 S E3-E7
L16 51 S L13 OR L15
L17 6 S L1 AND L16
L18 6 DUP REM L17 (0 DUPLICATES REMOVED)

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

All use of STN is subject to the provisions of the STN Customer
agreement. Please refer to the STN Customer Agreement for details.

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:18:44 ON 04 FEB 2003

=> file medline embase biosis biotechds scisearch hcaplus ntis lifesci		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'MEDLINE' ENTERED AT 10:19:41 ON 04 FEB 2003

FILE 'EMBASE' ENTERED AT 10:19:41 ON 04 FEB 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'BIOSIS' ENTERED AT 10:19:41 ON 04 FEB 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHDS' ENTERED AT 10:19:41 ON 04 FEB 2003
COPYRIGHT (C) 2003 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'SCISEARCH' ENTERED AT 10:19:41 ON 04 FEB 2003
COPYRIGHT (C) 2003 Institute for Scientific Information (ISI) (R)

FILE 'HCAPLUS' ENTERED AT 10:19:41 ON 04 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'NTIS' ENTERED AT 10:19:41 ON 04 FEB 2003
Compiled and distributed by the NTIS, U.S. Department of Commerce.
It contains copyrighted material.
All rights reserved. (2003)

FILE 'LIFESCI' ENTERED AT 10:19:41 ON 04 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

=> s protease?
L1 372494 PROTEASE?

=> s Nocardiosis
L2 735 NOCARDIOPSIS

=> s l1 and l2
L3 59 L1 AND L2

=> s feed (a) additive?
L4 10012 FEED (A) ADDITIVE?

15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:597756 HCAPLUS
DN 1001:150000

11 PAGES

IN Oestergaard, Peter Rahbek; Sjoeholm, Carsten
 PA F Hoffmann-La Roche A.-G., Switz.
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A23K001-165
 CC 17-12 (Food and Feed Chemistry)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001058276	A2	20010816	WO 2001-EP1153	20010205
	WO 2001058276	A3	20020221		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		CH, CM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	EP 1257176	A2	20021120	EP 2001-915190	20010205
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	US 2001026797	A1	20011004	US 2001-779323	20010208
	US 2003021774	A1	20030130	US 2001-779334	20010208
PRAI	DK 2000-200	A	20000208		
	US 2000-183133P	P	20000217		
	WO 2001-EP1153	W	20010205		
AB	Disclosed are acid-stable proteases homologous to those derived from strains of the genus Nocardiopsis , their use in animal feed, feed-additives and feed compns. contg. such proteases , and methods for the treatment of vegetable proteins using such proteases .				
ST	protease Nocardiopsis animal feed vegetable protein				
IT	Feed				
	Nocardiopsis				
	(acid-stable Nocardiopsis proteases in animal feed)				
IT	Vegetable				
	(proteins; treatment with proteinases in manufg. feed)				
IT	Proteins, general, biological studies				
	RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	soybean; animal feed manuf. with proteinases and)				
IT	Proteins, general, biological studies				
	RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	vegetable; treatment with proteinases in manufg. feed)				
IT	9001-92-7, Protease				
	RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	(acid-stable proteases in animal feed)				
IT	9031-11-2, .beta.-Galactanase 37278-89-0, Xylanase 37341-58-5, Phytase 39346-28-6, Galactanase				
	RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)				
	(animal feed contg. proteinases and)				

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 10:19:41 ON 04 FEB 2003

11 370494 2 PROTEASES

L3 59 S L1 AND L2
L4 10012 S FEED (A) ADDITIVE?
L5 1 S L3 AND L4

=> s acid (a) stable
L6 6127 ACID (A) STABLE

=> s l1 and l6
L7 406 L1 AND L6

=> s vegetable (a) protein?
7 FILES SEARCHED...
L8 7253 VEGETABLE (A) PROTEIN?

=> s animal (a) feed?
L9 48795 ANIMAL (A) FEED?

=> s l8 or l9
1 FILES SEARCHED...
L10 55897 L8 OR L9

=> s l7 and l10
L11 4 L7 AND L10

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12 4 DUP REM L11 (0 DUPLICATES REMOVED)

=> d 1-4 ibib ab

L12 ANSWER 1 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
ACCESSION NUMBER: 2001-16039 BIOTECHDS

TITLE: Use of **acid stable protease** for
producing a food composition;
for use as feedstuff, as a food-additive and in
vegetable protein treatment

AUTHOR: Oestergaard P R; Sjoeholm C

PATENT ASSIGNEE: Roche

LOCATION: Basle, Switzerland.

PATENT INFO: WO 2001058276 16 Aug 2001

APPLICATION INFO: WO 2001-EP1153 5 Feb 2001

PRIORITY INFO: DK 2000-200 8 Feb 2000

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2001-488930 [53]

AB The use of at least one stable **protease** (EC-3.4.21.62) in feedstuff where the **protease** has identity of at least 70% to a 188 amino acid sequence (I) and/or a 17 amino acid sequence (II), is claimed. Also claimed are: improving the nutritional value of feedstuff; an animal food-additive; and treatment of **vegetable proteins**. At least one **acid stable protease** is useful in the preparation of a composition for use in feedstuff. The **protease** has 71% identity to (I) and/or (II). The dosage of the **protease** is 0.01-200 mg. The feed composition is useful for feeding animals including

L12 ANSWER 2 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
ACCESSION NUMBER: 2001-16039 BIOTECHDS
Use of **acid stable protease**

the subtilisin for producing a food composition;
for use as feedstuff, as a food-additive and in
vegetable protein treatment

AUTHOR: Oestergaard P R; Sjoeholm C; Kluenter A
PATENT ASSIGNEE: Roche
LOCATION: Basle, Switzerland.
PATENT INFO: WO 2001058275 16 Aug 2001
APPLICATION INFO: WO 2001-EP1152 5 Feb 2001
PRIORITY INFO: DK 2000-200 8 Feb 2000
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2001-488929 [53]

AB The use of at least one stable **protease** (EC-3.4.21.62) in feedstuff where the **protease** is of the subtilisin family and/or has less than 10% residual activity when inhibited with subtilisin, is claimed. Also claimed are: improving the nutritional value of feedstuff; an animal food-additive; and treatment of **vegetable proteins**. At least one **acid stable protease** is useful in the preparation of a composition for use in feedstuff. The **protease** is of the subtilisin family and/or 10% residual activity when inhibited with subtilisin. The dosage of the **protease** is 0.01-200 mg/kg of feed. The feed composition is useful for **feeding animals**, including humans. Animals include ruminants and non-ruminants i.e. monogastric animals i.e. pigs, poultry and fish. The feedstuff comprises phytase, endo-1,4-beta-D-xylanase (EC-3.2.1.8), galactanase and/or beta-glucanase (EC-3.2.1.39). Soybean (Glycine max) is included amongst the vegetable source. (63pp)

L12 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:597756 HCAPLUS

DOCUMENT NUMBER: 135:152030

TITLE: Use of **acid-stable**

proteases in **animal feed**

INVENTOR(S): Oestergaard, Peter Rahbek; Sjoeholm, Carsten

PATENT ASSIGNEE(S): F Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058276	A2	20010816	WO 2001-EP1153	20010205
WO 2001058276	A3	20020211		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, JP, KG, LI, LU, LT, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

DK 2000200 8 Feb 2000 A 20000208

US 2003021774 A1 20030130

PRIORITY APPL. INFO.: DK 2000-200 A 20000208

AB Disclosed are **acid-stable proteases** homologous to those derived from strains of the genus *Nocardioopsis*, their use in **animal feed**, feed-additives and feed compns. contg. such **proteases**, and methods for the treatment of **vegetable proteins** using such **proteases**.

L12 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:597755 HCAPLUS
DOCUMENT NUMBER: 135:180103
TITLE: Use of **acid-stable** subtilisin **proteases in animal feed**
INVENTOR(S): Oestergaard, Peter Rahbek; Sjoeholm, Carsten; Kluenter, Anna-marie
PATENT ASSIGNEE(S): F Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058275	A2	20010816	WO 2001-EP1152	20010205
WO 2001058275	A3	20020221		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1257175	A2	20021120	EP 2001-907489	20010205
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2001026797	A1	20011004	US 2001-779323	20010208
US 2003021774	A1	20030130	US 2001-779334	20010208
PRIORITY APPLN. INFO.:			DK 2000-200	A 20000208
			US 2000-183133P	P 20000217
			WO 2001-EP1152	W 20010205

AB Disclosed are **acid-stable proteases** of the subtilisin family, their use in **animal feed**, feed-additives and feed compns. contg. such **proteases**, and methods for the treatment of **vegetable proteins** using such **proteases**.

=> d his

(FILE 'HOME' ENTERED AT 10:18:44 ON 04 FEB 2003)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, MEDSCIL' ENTERED AT 10:19:11 ON 04 FEB 2003

L1 1 S L3 AND L4
L6 6117 S ACID STABLE
L7 406 S L1 AND L6
L8 1000 S UNSTABLE

L10 55897 S L8 OR L9
 L11 4 S L7 AND L10
 L12 4 DUP REM L11 (0 DUPLICATES REMOVED)

=> e sjoeholm c/au

E1 10 SJOEHOLM B/AU
 E2 1 SJOEHOLM BIRGITTA/AU
 E3 10 --> SJOEHOLM C/AU
 E4 13 SJOEHOLM CARSTEN/AU
 E5 1 SJOEHOLM ELISABETH/AU
 E6 1 SJOEHOLM ELISABETH A/AU
 E7 1 SJOEHOLM EVA/AU
 E8 1 SJOEHOLM G/AU
 E9 1 SJOEHOLM GOERAN HENRY/AU
 E10 1 SJOEHOLM GOESTA/AU
 E11 10 SJOEHOLM H/AU
 E12 6 SJOEHOLM HANS/AU

=> s e3-e4

L13 23 ("SJOEHOLM C"/AU OR "SJOEHOLM CARSTEN"/AU)

=> s oestergaard P R/au

L14 5 OESTERGAARD P R/AU

=> e oestergaard P R/au

E1 4 OESTERGAARD P AA/AU
 E2 15 OESTERGAARD P B/AU
 E3 5 --> OESTERGAARD P R/AU
 E4 12 OESTERGAARD PER/AU
 E5 10 OESTERGAARD PER B/AU
 E6 1 OESTERGAARD PER BJOERN/AU
 E7 6 OESTERGAARD PETER RAHBK/AU
 E8 1 OESTERGAARD PREHEN/AU
 E9 7 OESTERGAARD S/AU
 E10 2 OESTERGAARD SOEREN/AU
 E11 1 OESTERGAARD STEEN/AU
 E12 4 OESTERGAARD T/AU

=> s e3-e7

L15 34 ("OESTERGAARD P R"/AU OR "OESTERGAARD PER"/AU OR "OESTERGAARD PER B"/AU OR "OESTERGAARD PER BJOERN"/AU OR "OESTERGAARD PETER RAHBK"/AU)

=> s l13 or l15

L16 51 L13 OR L15

=> s l1 and l16

L17 6 L1 AND L16

=> dup rem l17

PROCESSING COMPLETED FOR L17

L18 6 DUP REM L17 (0 DUPLICATES REMOVED)

=> d 1-6 ibib ab

for use as feedstuff, as a food additive and in capsule
 protein treatment

AUTHOR: Oestergaard P R; Sjoeholm C

PATENT INFO: WO 2001058276 16 Aug 2001
APPLICATION INFO: WO 2001-EP1153 5 Feb 2001
PRIORITY INFO: DK 2000-200 8 Feb 2000
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 2001-488930 [53]

AB The use of at least one stable **protease** (EC-3.4.21.62) in feedstuff where the **protease** has identity of at least 70% to a 188 amino acid sequence (I) and or a 17 amino acid sequence (II), is claimed. Also claimed are: improving the nutritional value of feedstuff; an animal food-additive; and treatment of vegetable proteins. At least one acid stable **protease** is useful in the preparation of a composition for use in feedstuff. The **protease** has 71% identity to (I) and/or (II). The dosage of the **protease** is 0.01-200 mg. The feed composition is useful for feeding animals, including humans. Animals include ruminants and non-ruminants i.e. monogastric animals i.e. pigs, poultry and fish. The feedstuff comprises phytase, endo-1,4-beta-D-xylanase (EC-3.2.1.8), galactanase and/or beta-glucanase (EC-3.2.1.39). Soybean (Glycine max) is included amongst the vegetable source. (40pp)

L18 ANSWER 2 OF 6 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI

ACCESSION NUMBER: 2001-16038 BIOTECHDS

TITLE: Use of acid stable **protease** of the subtilisin for producing a food composition; for use as feedstuff, as a food-additive and in vegetable protein treatment

AUTHOR: Oestergaard P R; Sjoeholm C; Kluenter A

PATENT ASSIGNEE: Roche

LOCATION: Basle, Switzerland.

PATENT INFO: WO 2001058275 16 Aug 2001

APPLICATION INFO: WO 2001-EP1152 5 Feb 2001

PRIORITY INFO: DK 2000-200 8 Feb 2000

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2001-488929 [53]

AB The use of at least one stable **protease** (EC-3.4.21.62) in feedstuff where the **protease** is of the subtilisin family and/or has less than 10% residual activity when inhibited with subtilisin, is claimed. Also claimed are: improving the nutritional value of feedstuff; an animal food-additive; and treatment of vegetable proteins. At least one acid stable **protease** is useful in the preparation of a composition for use in feedstuff. The **protease** is of the subtilisin family and/or 10% residual activity when inhibited with subtilisin. The dosage of the **protease** is 0.01-200 mg/kg of feed. The feed composition is useful for feeding animals, including humans. Animals include ruminants and non-ruminants i.e. monogastric animals i.e. pigs, poultry and fish. The feedstuff comprises phytase, endo-1,4-beta-D-xylanase (EC-3.2.1.8), galactanase and/or beta-glucanase (EC-3.2.1.39). Soybean (Glycine max) is included amongst the vegetable source. (63pp)

L18 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:597756 HCAPLUS

DOCUMENT NUMBER: 135:152030

DOC TYPE: PATENT INFO: Appl. 40 pp.

CODEN: PIXXDC

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058276	A2	20010816	WO 2001-EP1153	20010205
WO 2001058276	A3	20020221		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1257176	A2	20021120	EP 2001-915190	20010205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2001026797	A1	20011004	US 2001-779323	20010208
US 2003021774	A1	20030130	US 2001-779334	20010208
PRIORITY APPLN. INFO.:				
			DK 2000-200	A 20000208
			US 2000-183133P	P 20000217
			WO 2001-EP1153	W 20010205

AB Disclosed are acid-stable **proteases** homologous to those derived from strains of the genus *Nocardiopsis*, their use in animal feed, feed-additives and feed compns. contg. such **proteases**, and methods for the treatment of vegetable proteins using such **proteases**.

L18 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:597755 HCAPLUS

DOCUMENT NUMBER: 135:180103

TITLE: Use of acid-stable subtilisin **proteases** in animal feed

INVENTOR(S): Oestergaard, Peter Rahbek; Sjoeholm, Carsten; Kluenter, Anna-marie

PATENT ASSIGNEE(S): F Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058275	A2	20010816	WO 2001-EP1152	20010205
WO 2001058275	A3	20020221		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2001026797 A1 20011004 US 2001-779323 20010208

US 2003021774 A1 20030130 US 2001-779334 20010208

PRIORITY APPLN. INFO.:

DK 2000-200 A 20000208

US 2000-183133P P 20000217

WO 2001-EP1153 W 20010205

AB Disclosed are acid-stable **proteases** of the subtilisin family, their use in animal feed, feed-additives and feed compns. contg. such **proteases**, and methods for the treatment of vegetable proteins using such **proteases**.

L18 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:192181 HCAPLUS

DOCUMENT NUMBER: 126:183173

TITLE: Proteolytic enzymes derived from Amycolata and Amycolatopsis and their use in cheese-making and detergents

INVENTOR(S): **Sjoeholm, Carsten**; Nielsen, Bjarne
Roefeldt; Dambmann, Claus

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.; Sjoeholm, Carsten; Nielsen, Bjarne Roefeldt; Dambmann, Claus

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9704082	A1	19970206	WO 1996-DK299	19960702
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
RW:	KE, LS, MW, SD, SE, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA			
AU 9665128	A1	19970218	AU 1996-65128	19960702
EP 839187	A1	19980506	EP 1996-924787	19960702
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
CN 1193996	A	19980923	CN 1996-196439	19960702
US 5948746	A	19990907	US 1998-7269	19980114
PRIORITY APPLN. INFO.:			DK 1995-844	19950719
			WO 1996-DK299	19960702

AB The present invention relates to novel proteolytic enzymes. More specifically, the present invention relates to proteolytic enzymes obtainable from strains of Amycolata and Amycolatopsis. Moreover the invention relates to a process for the prepn. of the proteolytic enzyme of the invention, as well as detergent additives and detergent compns. comprising the proteolytic enzyme. The **protease** purified from Amycolatopsis mediterranei had a mol. wt. of 33 kilodaltons and a pI of 9.1. The enzyme displayed >90% activity at pH 8-11 and had a temp. optimum between 30-45.degree. when detd. on casein substrate. Using glucagon as a substrate, the **protease** showed a preference for cleaving Arg-Arg and Trp-Leu bonds, with weaker activity at Lys-Tyr bonds. Detergent formulations contg. the **protease** are presented.

L18 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:446691 HCAPLUS

DOCUMENT NUMBER: 126:183173

Yotaka; Petersen, Lars L.; Oestergaard, Per B.
; Kiesel, Walter

CORPORATE SOURCE: Biopharm. Div., Novo Nord., Bagsvaerd, Den

DOCUMENT TYPE: Journal
LANGUAGE: English

AB The effects of zinc ions on the amidolytic and proteolytic activity of recombinant factor VIIa in the presence of physiol. levels of calcium ions were examd. The amidolytic activity of factor VIIa was inhibited half-maximally by 20 .mu.M zinc. The amidolytic activity of a complex of recombinant tissue factor and factor VIIa was inhibited half-maximally by 70 .mu.M zinc. In contrast to the results obtained with factor VIIa, the amidolytic activities of other human vitamin K-dependent coagulation **proteases** including factor Xa, thrombin, and activated protein C were not appreciably affected by 50-100 .mu.M zinc. The proteolytic activation of factor X by a complex of factor VIIa and relipidated tissue factor apoprotein was inhibited half-maximally by 40 .mu.M zinc, whereas activation of factor IX in this system was inhibited half-maximally by 70 .mu.M zinc ions. Considerably higher levels of zinc (.apprx.100 .mu.M) were required to inhibit half-maximally the rate of factor X activation by a complex of factor VIIa and functional tissue factor on the surface of either a human bladder carcinoma cell line, J72, or stimulated human umbilical vein endothelial cells. Activation of factor IX by factor VIIa and tissue factor on the surface of J82 cells was not influenced by zinc. However, the activation rate of factor IX on human umbilical vein endothelial cells was inhibited half-maximally at 100 .mu.M zinc. The activation of factor X by factor VIIa in the presence of small unilamellar phospholipid vesicles was inhibited half-maximally by 20 .mu.M zinc, whereas factor IX activation by factor VIIa was not appreciably influenced by a 10-100 .mu.M zinc. Thus, plasma levels of zinc ions inhibit the amidolytic and proteolytic activities of factor VIIa. The mechanism of this inhibition, as well as its possible physiol. relevance, is unknown.

=> d his

(FILE 'HOME' ENTERED AT 10:18:44 ON 04 FEB 2003)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 10:19:41 ON 04 FEB 2003

L1 372494 S PROTEASE?
L2 735 S NOCARDIOPSIS
L3 59 S L1 AND L2
L4 10012 S FEED (A) ADDITIVE?
L5 1 S L3 AND L4
L6 6127 S ACID (A) STABLE
L7 406 S L1 AND L6
L8 7253 S VEGETABLE (A) PROTEIN?
L9 48795 S ANIMAL (A) FEED?
L10 55897 S L8 OF L9
L11 4 S L7 AND L10
L12 4 DUP REM L11 (0 DUPLICATES REMOVED)
E SJOEHOLM C/AU
L13 23 S E3-E4
L14 5 S OESTERGAARD P R/AU
E OESTERGAARD P R/AU
L15 34 S E3-E7
L16 51 S L13 OF L15
L17 2 S L13 AND L16

	Issue Date	Pages	Document ID
1	20011004	18	US 20010026797 A1
2	19990907	28	US 5948672 A
3	19980922	6	US 5811382 A
4	19940517	13	US 5312748 A
5	19900522	22	US 4927558 A

	Issue Date	Pages	Document ID	Title
1	20020801	38	US 20020102702 A1	Protease variants and compositions
2	20011004	18	US 20010026797 A1	Use of acid-stable proteases in animal feed
3	20010911	20	US 6287585 B1	Methods for laundry using polycations and enzymes
4	20010710	13	US 6258129 B1	Method for enzymatic treatment of wool
5	20010614	14	US 20010003220 A1	METHOD FOR ENZYMATIC TREATMENT OF WOOL
6	20001031	7	US 6140109 A	Method for enzymatic treatment of wool
7	20000808	10	US 6100080 A	Method for enzymatic treatment of biofilm
8	20000808	10	US 6099588 A	Method for treatment of wool
9	20000418	8	US 6051033 A	Method for enzymatic treatment of wool

	Issue Date	Pages	Document ID	Title
11	19980922	6	US 5811382 A	Detergent compositions
12	19940517	13	US 5312748 A	Protease

	U	1	Issue Date	Pages	Document ID
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20011004	18	US 20010026797 A1

	Title	Current OR	Current XRef
1	Use of acid-stable proteases in animal feed	424/94.6	426/54

[illegible]

	Image Doc. Displayed	PT
1	US 20010026797	<input type="checkbox"/>

	U	1	Issue Date	Pages	Document ID
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20030130	26	US 20030021774 A1
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20011004	18	US 20010026797 A1

	Title	Current OR	Current XRef
1	Use of acid-stable subtilisin proteases in animal feed	424/94.3	424/442; 424/94.63; 424/94.66
2	Use of acid-stable proteases in animal feed	424/94.6	426/54

[illegible]

	Image Doc. Displayed	PT
1	US 20030021774	<input type="checkbox"/>
2	US 20010026797	<input type="checkbox"/>

	U	1	Issue Date	Pages	Document ID
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20030130	26	US 20030021774 A1
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20011004	18	US 20010026797 A1
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19960924	6	US 5558640 A

	Title	Current OR	Current XRef
1	Use of acid-stable subtilisin proteases in animal feed	424/94.3	424/442; 424/94.63; 424/94.66
2	Use of acid-stable proteases in animal feed	424/94.6	425/54
3	System for infusion of medicine into the body of a patient	604/67	604/891.1; 607/32

[illegible]

	Image Doc. Displayed	PT
1	US 20030021774	<input type="checkbox"/>
2	US 20010026797	<input type="checkbox"/>
3	US 5558640	<input type="checkbox"/>